

ABSTRACT OF THE DISCLOSURE

A system and method of aligning a micromirror array to the micromirror package and the micromirror package to a display system. One embodiment provides a method of forming and utilizing a package that exposes regions of an alignment reference plane. The device within the package is mounted on the reference plane such that the exposed regions allow precise alignment with the device in a direction perpendicular to the reference plane. Alignment surfaces formed in a display system or other system contact the reference plane at the exposed regions to position the packaged device relative to other components of the system. One embodiment of the package 400 taught has laminated layers forming the package substrate 402 and providing a precision reference plane 416 relative to the position of the micromirror device 404. The package may be formed by laminating several layers of material in sheets to form several package substrates simultaneously. Voids formed in the layers 408 on one side of the reference plane provide access to the reference plane. A transparent cover or lid 412 is attached to the package substrate 402 sealing the micromirror 404 in the cavity 410. The preceding abstract is submitted with the understanding that it only will be used to assist in determining, from a cursory inspection, the nature and gist of the technical disclosure as described in 37 C.F.R. § 1.72(b). In no case should this abstract be used for interpreting the scope of any patent claims.

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